

PUBLICATION NUMBER : 01169416
 PUBLICATION DATE : 04-07-89

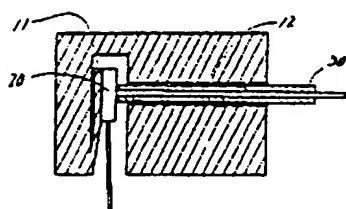
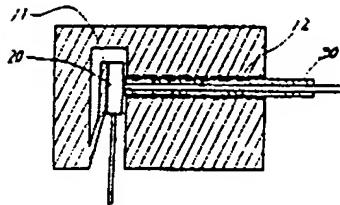
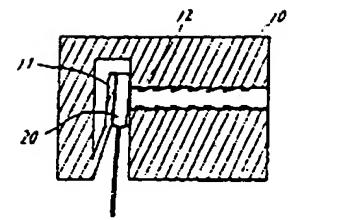
APPLICATION DATE : 25-12-87
 APPLICATION NUMBER : 62326970

APPLICANT : HITACHI LTD;

INVENTOR : SHIMIZU JUNICHI;

INT.CL. : G02B 6/42

TITLE : OPTICAL TRANSMISSION MODULE



ABSTRACT : PURPOSE: To reduce the manufacturing cost by eliminating the need of an optical connector by allowing an optical element fitting part of a housing of an optical module to have a springy property, and also, providing a projection on an inserting part of an optical fiber.

CONSTITUTION: When an optical fiber 30 is inserted to the innermost part, an optical element 20 becomes a pressed state. Subsequently, when the optical fiber 30 is drawn in the direction reverse to the time of insertion, a saw tooth part 12 expands to the inside by a springy property, penetrated into the covering of the optical fiber 30 and fixed to a housing 10. In this case, the tip of the optical fiber 30 moves, but the optical element 20 also moves to match the movement of the optical fiber 30 due to a springy property of an optical element fitting part 11, therefore, there is an effect for keeping the coupling the optical element 20 and the optical fiber 30 constant. Accordingly, the optical fiber can be connected to an optical transmission module without using an optical connector, etc. In such a way, the optical transmission module can be manufactured at a low cost.

COPYRIGHT: (C)1989,JPO&Japio